



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/036,542

DATE: 01/19/2002

TIME: 10:50:53

Input Set : A:\PA002PlseqList.txt

Output Set: N:\CRF3\01192002\J036542.raw

p5

1 <110> APPLICANT: Birse et al.
 3 <120> TITLE OF INVENTION: 25 Human Prostate and Prostate Cancer Associated Proteins
 5 <130> FILE REFERENCE: PA002P1
 C-OK 7 <140> CURRENT APPLICATION NUMBER: US/10/036,542
 8 <141> CURRENT FILING DATE: 2002-01-07
 10 <150> PRIOR APPLICATION NUMBER: PCT/US00/19666
 11 <151> PRIOR FILING DATE: 2000-07-20
 13 <150> PRIOR APPLICATION NUMBER: 60/144,972
 14 <151> PRIOR FILING DATE: 1999-07-21
 16 <150> PRIOR APPLICATION NUMBER: 60/148,681
 17 <151> PRIOR FILING DATE: 1999-08-13
 19 <150> PRIOR APPLICATION NUMBER: 60/149,173
 20 <151> PRIOR FILING DATE: 1999-08-17
 22 <150> PRIOR APPLICATION NUMBER: 60/158,004
 23 <151> PRIOR FILING DATE: 1999-10-06
 25 <150> PRIOR APPLICATION NUMBER: 60/194,689
 26 <151> PRIOR FILING DATE: 2000-04-05
 28 <160> NUMBER OF SEQ ID NOS: 157
 30 <170> SOFTWARE: PatentIn Ver. 2.0
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 33 <211> LENGTH: 733
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Homo sapiens
 37 <400> SEQUENCE: 1
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 39 aattcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga 120
 40 tctcccgga ccttgaggtc acatgcgttg tgggtgacgt aagccacgaa gaccctgagg 180
 41 tcaagttcaa ctggtacgtg gacggcgttg aggtgcataa tgccaagaca aagccgcggg 240
 42 aggagcagta caacagcacg taccgtgttg tcagcgtcct caccgtcctg caccaggact 300
 43 ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctccca acccccatcg 360
 44 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 45 catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480
 46 atccaagcga catgcgcgtg gactgggaga gcaatgggca gccggagaac aactacaaga 540
 47 ccacgcctcc cgtgctggac tccgacggct ccttcttctc ctacagcaag ctacacgttg 600
 48 acaagagcag gtggcagcag ggaacgtct tctcatgctc cgtgatgcac gaggctctgc 660
 49 acaaccacta cagcgagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
 50 gactctagag gat 733
 52 <210> SEQ ID NO: 2
 53 <211> LENGTH: 5
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Homo sapiens
 57 <220> FEATURE:
 58 <221> NAME/KEY: Site

ENTERED

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59 <222> LOCATION: (3)

60 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids

62 <400> SEQUENCE: 2

63 Trp Ser Xaa Trp Ser

64 1 5

66 <210> SEQ ID NO: 3

67 <211> LENGTH: 86

68 <212> TYPE: DNA

69 <213> ORGANISM: Artificial Sequence

71 <220> FEATURE:

72 <221> NAME/KEY: Primer_Bind

73 <223> OTHER INFORMATION: Synthetic sequence with 4 tandem copies of the GAS binding

site

74 found in the IRF1 promoter (Rothman et al., Immunity 1:457-468

75 (1994)), 18 nucleotides complementary to the SV40 early promoter,

76 and a Xho I restriction site.

78 <400> SEQUENCE: 3

79 ggcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

80 cccgaaatat ctgcatctc aattag 86

82 <210> SEQ ID NO: 4

83 <211> LENGTH: 27

84 <212> TYPE: DNA

85 <213> ORGANISM: Artificial Sequence

87 <220> FEATURE:

88 <221> NAME/KEY: Primer_Bind

89 <223> OTHER INFORMATION: Synthetic sequence complementary to the SV40 promoter;

includes a

90 Hind III restriction site.

92 <400> SEQUENCE: 4

93 gcggcaagct ttttgcaaag cctaggc 27

95 <210> SEQ ID NO: 5

96 <211> LENGTH: 271

97 <212> TYPE: DNA

98 <213> ORGANISM: Artificial Sequence

100 <220> FEATURE:

101 <221> NAME/KEY: Protein_Bind

102 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes

GAS

103 binding sites found in the IRF1 promoter (Rothman et al., Immunity

104 1:457-468 (1994)).

106 <400> SEQUENCE: 5

107 ctgcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60

108 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120

109 gccctaact cgcgccagtt cgcgccattc tccgccccat ggctgactaa ttttttttat 180

110 ttatgcagag gccgagccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240

111 ttttgaggc ctaggctttt gcaaaaagct t 271

113 <210> SEQ ID NO: 6

114 <211> LENGTH: 32

115 <212> TYPE: DNA

116 <213> ORGANISM: Artificial Sequence

118 <220> FEATURE:

119 <221> NAME/KEY: Primer_Bind

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120 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1 promoter

121 sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a

122 Xho I restriction site.

124 <400> SEQUENCE: 6 32

125 gcgctcgagg gatgacagcg atagaacccc gg

127 <210> SEQ ID NO: 7

128 <211> LENGTH: 31

129 <212> TYPE: DNA

130 <213> ORGANISM: Artificial Sequence

132 <220> FEATURE:

133 <221> NAME/KEY: Primer_Bind

134 <223> OTHER INFORMATION: Synthetic primer complementary to human genomic EGR-1 promoter

135 sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a

136 Hind III restriction site.

138 <400> SEQUENCE: 7 31

139 gcgaagcttc gcgactcccc ggatccgcct c

141 <210> SEQ ID NO: 8

142 <211> LENGTH: 12

143 <212> TYPE: DNA

144 <213> ORGANISM: Homo sapiens

146 <400> SEQUENCE: 8 12

147 ggggactttc cc

149 <210> SEQ ID NO: 9

150 <211> LENGTH: 73

151 <212> TYPE: DNA

152 <213> ORGANISM: Artificial Sequence

154 <220> FEATURE:

155 <221> NAME/KEY: Primer_Bind

156 <223> OTHER INFORMATION: Synthetic primer with 4 tandem copies of the NF-KB binding site

157 (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the

158 SV40 early promoter sequence, and a XhoI restriction site.

160 <400> SEQUENCE: 9 60

161 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 73

162 ccattctcaat tag

164 <210> SEQ ID NO: 10

165 <211> LENGTH: 256

166 <212> TYPE: DNA

167 <213> ORGANISM: Artificial Sequence

169 <220> FEATURE:

170 <221> NAME/KEY: Protein_Bind

171 <223> OTHER INFORMATION: Synthetic promoter for use in biological assays; includes NF-KB

172 binding sites.

174 <400> SEQUENCE: 10 60

175 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 120

176 caattagtca gcaaccatag tcccgcacct aactccgccc atcccgcccc taactccgcc 180

177 cagttccgcc cattctccgc cccatggctg actaatTTTT tttatttatg cagaggccga 240

178 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 256

179 cttttgcaaa aagctt

181 <210> SEQ ID NO: 11

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189 gacttcattt gtgctaacag tacaacagca gatttgggtc aggcttaatc taagtgttaa      180
190 cttttttttc tgggtctttt ttggattgat gactgtctca ctttgactat acccatgttt      240
191 tgcattgcaat gactcatgca tggttttctt aactagctaa tattaacaat ttattccata      300
192 taaaaaatgga attttgcaac atcctttaat aagggtgagg aagcatgaac ctcagacttc      360
193 tggcactatt acatagtaag cacatgaagt agtttgataa taaatagcag ttctagtact      420
194 tcacatttca cccgtgtgtg caatgccttt ttctgggggg tggggggtga gggaaaacct      480
195 ggtagtgaat gtgtagtgtg ggaataaaga aaagcactaa atcctgccct tttgtgtgtg      540
196 tttccttttg atacaactag gttattcata atgtatacct agaaaagtga aattgaaaat      600
197 accaaaagat gtatcatttt tatttgaatc catcatgcag tgtacatttc agataatttc      660
198 cttcagtcct cagataggag tgtatccaaa catctaattt tatgtgcaat gtgtatctta      720
199 tatgaatgtt ttattttata taccacatgc aaaaatgtcc atatgacta ttttaaatgt      780
200 ttaaataata tattccttct ttataatgct aaatctatat gaggaccata tttttataag      840
201 tcagtggctc gactggtttc attttagaat taacagctgc ttcaatatgt tattcaatgt      900
202 taatgttttg ctgtgagtag aatatgtaaa agtggcatgg cagcacttat gctctgtgac      960
203 agtattgtgt gtcatagttg agcagtagct ggtagaatta ggcagttggt gatagtttta      1020
204 ctttgggtaca aataaaaact gtatatctat atacaaataa tatatagata tatatgtcca      1080
205 ccagtataat ggcattgctg tgtctggcac ttcatgttac agacttttat aataaaagaa      1140
206 cttgaaagtt ctaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1200
208 <210> SEQ ID NO: 12
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215 tctgaaacta gctctgggac cggggtctgc ggcgggcccc tagctggccc cgtctcccat      120
216 cccagaagg gtattcactg gggattctga gctttggcta ctccagtttc ccacgacacg      180
217 atgttccctt tctacagctg ctggaggact ggactgctac tactactcct ggctgtggca      240
218 gtgagagaat cctggcagac agaagaaaaa acttgcgact tggtaggaga aaagggtaaa      300
219 gagtcagaga aagagttggc tctagtgaag aggtgaaac cactgtttaa taaaagcttt      360
220 gagagcactg tgggccaggg ttcagacaca tacatctaca tcttcagggt gtgccgggaa      420
221 gctggcaacc acacttctgg ggcaggcctg gtgcaaatca acaaaagtaa tgggaaggag      480
222 acagtggtag ggagactcaa cgagactcac atcttcaacg gaagacaatt ttaacctgt      540
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224 ggctgttcca ccagagatct cccacctcag tgtgggttcc atcttacttg tcacgtgagt      660
225 atgccttcc tttatcagaac agaccttcc tctttttgtt ttttaaggta gtaactatat      720
226 ggtggtacat aagcacaat tgtatgtgta cattatgctg taattgatgg ggataacttt      780
227 ttaaactctc tggtataaaa ataattctgc caggacacag ggctcacgcc tgtaatccca      840
228 gcactttggg aagccaaggc agatggatca cctaagggtc agagtttgag accaacctga      900
229 ccaacatgat gaaactccgt ctctactaaa aatacaaaat tagccagcac agtggcacat      960
230 gcctgtaatc ccagctactt gggaggctga ggcagtagaa tcaattgaac ctgggagggt      1020
231 gaggttgtag tgagctgagg tcgcaccatt gcactccagc ctgggcaaca agggcaaaac      1080
232 tccgtctaaa aaaaaaaaaa aaaaaa
234 <210> SEQ ID NO: 13

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235 <211> LENGTH: 887
236 <212> TYPE: DNA
237 <213> ORGANISM: Homo sapiens
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242 tacactgggc tgtccaagca tgttgaagac gtccccgcgt ttcaggccct tggctcactc 180
243 aatgacctcc agttctttag atacaacagt aaagacagga agtctcagcc catgggactc 240
244 tggagacagg tgaaggaat ggaggattgg aagcaggaca gccaaactca gaaggccagg 300
245 gaggacatct ttatggagac cctgaaagac atcgtggagt attacaacga cagtaacggg 360
246 tctcacgtat tgcagggaag gtttggttgt gagatcgaga ataacagaag cagcggagca 420
247 ttctggaaat attactatga tggaaaggac tacattgaat tcaacaaaga aatcccagcc 480
248 tgggtccctc tcgacccagc agccccctac tctgtccacg tgcagcacag cagcctggcc 540
249 cagccccctc tgggtgccctg ggaggccagc taggaagcaa gggttggagg caatgtggga 600
250 tctcagaccc agtagctgcc ctctctgcct gatgtgggag ctgaaccaca gaaatcacag 660
251 tcaatggatc cacaaggcct gaggagcagt gtggggggac agacaggagg tggatttggg 720
252 gaccgaagac tgggtgcctc gtcttgagta gacttggacc caaaaaatca tctcaccttg 780
253 agcccccccc caccctattg tctaactctg agaagctaataaataatcat ccctccttgc 840
254 ctagcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 887
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264 ggccgccatg ttgcagcagg atagtaaatga tgacactgaa gatgtttcac tgtttgatgc 180
265 ggaagaggag acgactaata gaccaagaaa agccaaaatc agacatccag tagcatcggt 240
266 tttccactta ttctttcgag tcagtgaatc catcgtctat cttctctgtg agttgctcag 300
267 cagcagcttt attacctgta tggtgacaat tatcttggtt tggtcgtgtg acttttgggc 360
268 agtgaagaat gtcacaggtg gactaatggt tggcctacgt tgggtggaatc acattgatga 420
269 agatggaaag agccattggg tgtttgaatc tagaaaggag tcctctcaag agaataaaac 480
270 tgtgtcagag gctgaatcaa gaatctttt gttgggactt attgcctgtc cagtactgtg 540
271 ggtgatattt gccttttagt cactcttctc cttcagagta aagtggttgg cggtggttat 600
272 catgggtgtg gtgctacaag gtgccaacct gtatggttac atcaggtgta aggtgcgcag 660
273 cagaaagcat ttaaccagca tggctacttc atattttgga aagcagtttt taagacaaaa 720
274 cactggagat gatcagactt cctgaataga gaaagcttat gtgctttggt acattgggga 780
275 acaactgaag agattcttga ctcaaccttt tagagcttag tccatgttgc aacgaggagt 840
276 gttggctttg tttttccact taaaaacttt atttataaaa aggaaaagta gttttcatat 900
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282 cacttttgct tatgtataag ttagaaataa ttgttagttt ttaatatgca cttcgtgggg 1260
283 aaatttctta gacgtatgca agcaagtga aacaattagg gccagtggta ttaactactt 1320
284 tataaaattt tatttttggt tgtaagaagt catctactta aggccagtt aatataagt 1380
285 gaatcatcat agtttaagga ataccagag attgctgctg ttctatttat ttacagaaa 1440
286 ggtagctag attgaaagct cttcagtgga ccttgagcta atagatcttt taccactaaa 1500

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

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L:7 M:270 C: Current Application Number differs, Replaced Current Application Number
L:63 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
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L:1228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
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L:1593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
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L:1789 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
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L:1934 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:3043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85
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L:3521 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95

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L:3719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99